

SunTimes

Spring 1987

Sun Remarketing Catalog

New Sun 20 Hard Drive Released for Lisa/XL

This fast new drive opens up a whole new way of life for the Lisa. Run Macintosh software for a fraction of the price of a Mac+ and a hard drive of similar size. See page 3.

HFS - Now Available for the Lisa and MacXL!!!

This, more than anything else, has been on our customer's want list for the Lisa and MacXL. It's here...it really works and it is not just a kluge. Read about it on page 8.



Rec'd 4-22-87

Over 200 Apple /// Products in Stock and Ready to Ship.

There is no company in this whole country that has more products for your Apple /// than Sun. A partial catalog with descriptions can be found beginning on page 4.

Sun Makes a Clean Sweep of Warehouse!

We went and cleaned out of the corners and cubby holes of our warehouses and found some spectacular limited quantity and one-of-a-kind buys. See details page 9.



SPECIALIZING IN THE SUPPORT OF OBSOLETE AND USED
APPLE PRODUCTS

THE /// MAGAZINE

is THE source for APPLE /// owners!

AN INDEPENDENT JOURNAL FOR:

/// INFORMATION
TECHNICAL DATA
SOFTWARE REVIEWS
BUSINESS TIPS
FUN



OUR 3RD YEAR

Our magazine, successor to THE /// NEWSLETTER and founded January 1, 1985, is an international monthly review of Apple /// tips, articles, rumors and news. The /// Magazine has become the premiere publication for Apple /// owners and users.

All /// MAGAZINE subscribers begin their subscription as of the first of each year. You will receive copies of ALL of the back issues of the magazine for 1987 (copies of the 1985 & 1986 issues are available). You won't miss a bit of news on the best machine Apple computer ever made. Now as low as \$35.00 per year.

Return to: THE /// MAGAZINE
3201 Murchison Way

Attn: New subscriptions
Carmichael, CA 95608 (916) 485-6525

I want to subscribe to THE /// MAGAZINE. Enclosed is my check for \$35.00 (2nd Class, USA only; Canada / Mexico / USA First Class, \$47.00; outside USA, Canada and Mexico, \$60.00) for 12 issues (one year).

Company Name : _____
Attention : _____
Address : _____
City : _____ State : _____ Zip : _____
Telephone # : _____

I am subscribing as a: Individual Business Vendor

Signed: _____

REV. 1/87

personal notes

From The Desk of Bob Cook...

We hope you notice and appreciate our new look. Many of our customers have asked that we provide more of a catalog with descriptions of the products we offer. We hope that this will help you in your search and selection of items for your Apple computer.

We also get lots of letters and even more customers on the phone that tell us how much they appreciate our efforts to find and support obsolete Apple products. And, in the future, our plans are to do even more than we are now.

In this issue of Sun Times you'll notice how excited we are about the new Sun 20 Hard Drive for the Lisa and HFS, offering a new dimension to added mass storage capabilities never before available. (see articles next page and page 8.)

There are also some fantastic stock reduction sale values we're offering so that we can make room for anticipated new items to our product line.

Because we appreciate your business and your comments, we hope you will continue to let us know how we can best serve you. To place your order, simply use our handy order form or call our toll-free orderline. For service, support or questions please call our service line. We look forward to hearing from you!

**Bob Cook, President
Sun Remarketing**

here's what's new...

New Sun 20 Breaks Barriers for Lisa and MacXL Owners...

For those of you who have waited patiently for development of additional hard disk storage capacity for your Lisa/Mac XL, your wait is now over. We are now shipping the new Sun 20.

This new drive is designed to fit in either the Lisa 2.0 or the Macintosh XL. It can act as a direct replacement of the Apple Widget 10mb drive and has features that make it the best hard disk system available for your Lisa.

At the heart of this new system is a completely redesigned controller card. The single Sun controller card replaces the five boards used to control the Widget. It not only transfers data much quicker, it is also quieter and requires a whole lot less power.

The installation is quite simple but slightly different for the Lisa and Mac XL. For that reason, when you order, we must know which machine it will be installed in. Just pop off the computer's front cover, remove the drive cage, connect the cables as shown in the documentation provided, tighten down the new drive cage, put the front cover back on and boot up your new system.

You'll find that your new hard disk is ready within seconds and will patiently wait for the diagnostics routine to run its course before opening up to the Macintosh Finder. (We pre-

install MacWorks and our new HFS Startup Disk on new Sun 20 drive we ship.) From there you'll discover a rather remarkable difference in speed.

Built in to the Sun 20 is a buffer which allows information to be sent to the drive immediately and do its waiting there instead of in your computer's memory. Now you can get back to the work at hand much quicker.

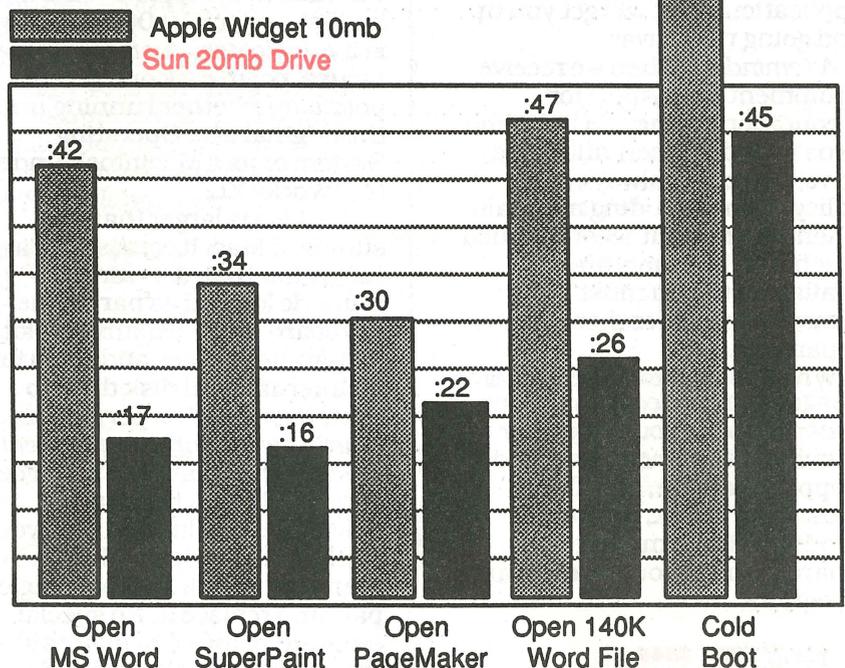
How quick? We did a simple benchmark test to see how the Sun 20 compared with the Widget. The figure on this page illustrates the difference by initiating a cold boot and opening popular applications. Each hard disk had identical files installed on them.

This new hard drive also has some future potential as well. It is capable of handling even larger than 20mb drives if operating under HFS. It also has SCSI capabilities, when such a port becomes available.

All in all, we're pretty happy with our newest support item for the Lisa. The Sun 20 will be available as complete systems or as an upgrade item to your present computer. Please refer to our price list for price list or just give us a call and let us brag!

SEE OUR RELATED ARTICLE ON HFS FOR THE LISA AND MAC XL ON PAGE 8!

Drive Comparison



The new Sun 20 Hard Drive for the Lisa and Macintosh XL not only provides for larger storage capabilities than ever before but registers a significant increase in efficiency and speed.

computers

Apple ///. Here is a computer that is at home in any business. In fact, some of our best customers are accountants that *would not trade their Apple /// system for anything else!*

It is available beginning with 128K of memory. Our best selling configuration though, is 256K. Many of the software programs that run on the /// require at least that much and it gives you a lot more flexibility.

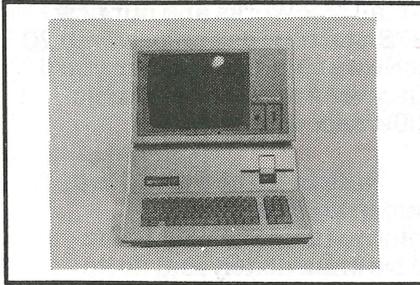
When buying a computer you should first decide what tasks you wish to accomplish with it. You then find software that will do that and *then* match it to the computer. You'll find that for most basic business tasks *the Apple /// can still keep up with the best at a fraction of what others would cost.* In fact, when the Apple /// was first introduced it sold for over \$2200!

Our Apple /// systems come complete with the computer (CPU), an internal disk drive and monochrome monitor. Also included are the Systems Utilities Program Disk and][+ Emulation Disk. For most applications that will get you up and going right away.

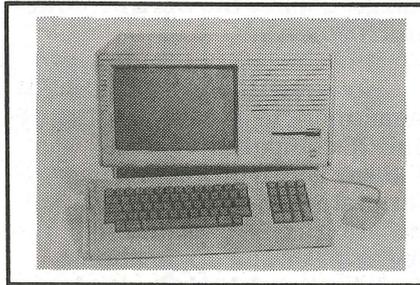
A reminder: When we receive equipment from Apple for reconditioning they do not come to us with documentation. We have, therefore, always had a policy of not including manuals when we price out reconditioned machines. Manuals are available but you must remember to order them separately.

When you order, here are some suggestions of *accessory items that will make you enjoy your purchase even more:* a second floppy disk drive, ProFile or Quark hard disk, printer, modem, Titan emulation boards, and of course, software programs.

Apple /// 128K \$549
Apple /// 256K \$599
Apple /// - ProFile \$999
Apple /// - Titan \$749



Apple ///...the rock of Gibraltar of computers



Run Macintosh software for less...

Lisa Professional. Here is your opportunity to show them all...a computer that is not a no-name clone that will run Macintosh software *and* save you money!

The Lisa is not new. It was introduced by Apple 4 years ago for just under \$10,000. And boy is it easy to use. *Just pick up the mouse, point, click and your on your way* whether running under the original Lisa Operating System or as a Macintosh under MacWorks XL.

The Lisa is larger than the standard Mac. It comes with a 12" rather than a 9" screen a numeric keypad as part of the keyboard, three expansion slots for parallel devices and room for an internal hard disk drive to boot. *It was built to perform as a sturdy piece of office equipment.*

When the Lisa boots up it goes through its own internal diagnostic routine and tells you on the screen where it hurts. You then simply pull out that single part and replace it. No special tools are required to maintain the Lisa either. *All you need is two fingers in order to remove any of its modular components - from disk drive to memory*

boards or power supply.

There are two things you ought to be warned about though, although minor. Not all Mac software is compatible. Of the ones we have tested almost all of the major software programs will run just fine. We do find problems where developers have not stuck to the Mac toolbox and tried to take some programming shortcuts. This is prevelant mostly in games. If you have a question about a specific piece of software, give our service line a call and we'll let you know if it is on our tested list.

Also, the pixels on a Mac screen are square and on the Lisa rectangular. This affects what is called the aspect ratio. A true circle on the Lisa looks like an oval on the screen. This can be corrected with the installation of a Screen Fix Kit when you order. Or, just use the rulers and shift commands available in most draw programs to get around it.

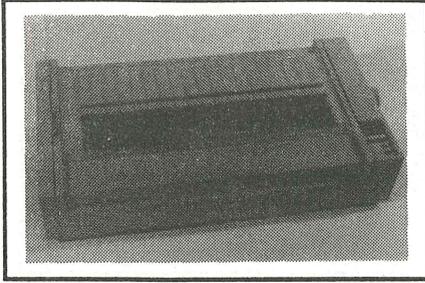
Support...what about future support? A good question. We have been in the support business for the Apple /// for the last 5 years. *We are now offering that same commitment to the Lisa.* Also, up until now, the Lisa would not accept a larger than 10mb hard disk. We have independently spent over \$100,000 just in development costs of a new controller board that removes that inconvenience. And, there are other improvements we're working on right now for release in the future.

So, if you're into desktop publishing, word processing, spreadsheeting or whatever, the Lisa Professional will allow you to *see a whole lot more screen for a whole lot less money.* And for most applications its quite a reasonable alternative.

Lisa Pro - 400K \$799
Lisa Pro - 5mb ProFile \$999
Lisa Pro - 10mb HD \$1495
Lisa Pro - 20mb HD w/HFS \$1995

See HFS article on page 8.

printers



Best Selling Printer

Imagewriter I Printer. Now here is a real printer! With the Imagewriter *you can create a paper copy of almost anything you can create on the screen.* This is the original Imagewriter printer that quickly became the number one selling printer in the world.

It's actually more than a printer. Inside *it contains its own microprocessor*, allowing it to work on its own with the data it receives from your computer. It can store tabulating commands and fill out forms, printing both backwards and forwards while moving the paper both up and down. It can print foreign language characters from its built-in fonts, and even reproduce alphabets of special symbols you have designed. It can underline your text or print it in boldface, with a wide range of character and line spacing options. Finally, *it can print drawings: graphs, pictures and diagrams, for example.*

Team up the Imagewriter with your computer and you'll have a whole new kit of tools.

Accessory kits are available for most Apple computers or use a regular serial and modem eliminator cable combination to *hook up to any RS232 port.* Cables are sold separately.

Imagewriter I 15" carriage \$445

QMS-PS 800 Laser Printer.

Nothing completes your system better than the addition of a Laser Printer. Here is a printer that is every bit as good as any on the market but priced a little bit less.

The PS 800 is completely compatible with systems using AppleTalk™ and *utilizes the full power of the PostScript™ language* to produce high quality output. The print engine is the industry standard Canon with 300 dots per inch (dpi) resolution and a maximum printing speed of 8 pages per minute.

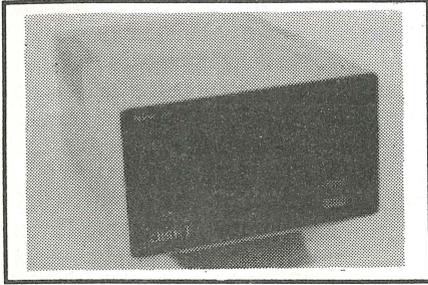
Now you can get the advantages of high quality output of type and graphics on your computer right onto *standard copier paper.* This makes a perfect companion to the Lisa Professional for *outstanding proposals, newsletters, graphics, etc.*

You can connect your computer through an AppleTalk network connector or direct. It will also emulate popular letter quality printers. The PS 800 has a *built-in emulator for the Diablo 630 printer.*

Again, cables are not included and can be purchased separately to satisfy your particular needs. The manual to the QMS printer is quite complete and even *includes two books on the PostScript language.*

QMS-PS 800 \$3995
PS 800 with plus kit 4495

disk drives



Disk II 5 1/4" Drive

Disk II. The one way to best increase the capability of your Apple II is by expanding its memory capacity. The Disk II is a 5 1/4" floppy disk drive that plugs directly into a disk controller card in the Apple II, II+ or IIe. It will also work on the IIc or IIgs smartport with the addition of a DB-19 adapter cable. Or, you can use the Universal Disk Controller Card (UDC) on the IIgs and IIe as well.

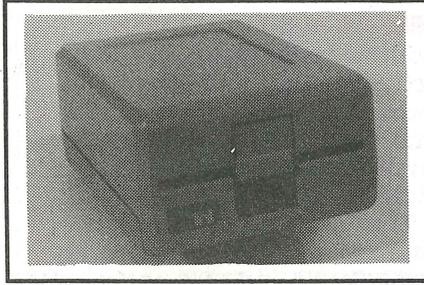
The Disk II comes with an attached cable that interfaces with the standard disk controller card (sold separately). You can fit 2 disk drives to each controller card and up to 3 controller cards into one computer.

Its memory capacity for a single sided diskette is 140K. These drives are reconditioned and are in short supply so, please call first to insure availability.

Disk II \$99
Disk II with interface \$149
Disk II with UDC \$189

Disk ///. This is the most standard way to increase your system's available storage capacity on the Apple ///.

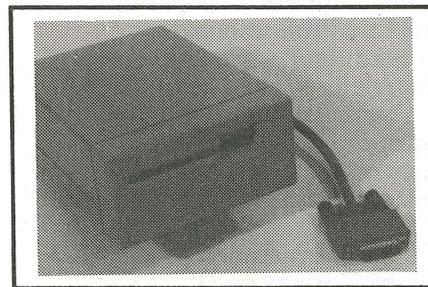
As your storage requirements increase, expand your system's capacity with the Disk /// - a reliable 5 1/4" floppy disk drive. The Apple /// can accommodate up to three Disk ///'s in addition to its one built-in drive, for a total on-line storage capacity of 560,000 bytes. With the attached cable simply plug your Disk /// into the appropriate port on the back of your Apple ///. (The ///+



Disk /// 5 1/4" Drive

requires an adapter, sold separately.) You can then daisy-chain an additional two drives for a total of 4 disk drives on your system.

Disk /// \$190
///+ Adapter \$20



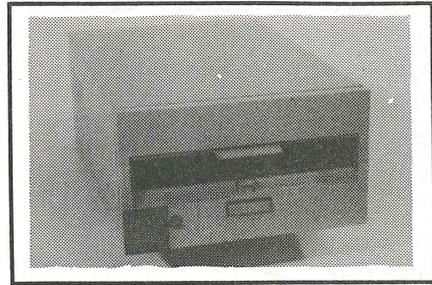
Apple 3 1/2" 400K Drive

Apple 400K External. This is one of the most reliable disk drives on the market. It was made by Sony and comes complete with attached cable for instant hookup.

We were able to buy these drives from a company, who was trading in for double-sided drives, at a great price and are passing along the savings to you. They are completely reconditioned in our service department and come with a 90 day warranty.

Although this drive was intended for the Macintosh it will work on the II, II+, IIe and IIgs with the use of a Universal Disk Controller Card (UDC).

Mac 400K Drive \$79
400K Drive with UDC \$189



MicroSci Double-Sided Drive for Apple ///

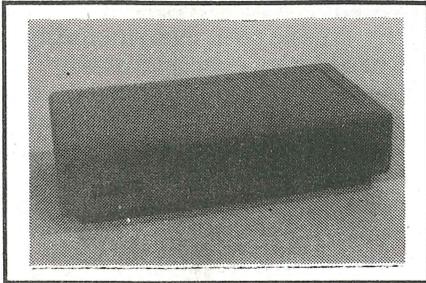
MicroSci A143. Here's a way to add the capacity of 4 disk drives in the form of only one. The A143 is a 140 track, double-sided (96 tracks per inch) drive with a useable storage capacity of 573,440 bytes. It provides faster access time and a much greater disk capacity.

It connects directly to the Apple /// through its built-in disk controller port and does not use one of the four expansion slots. It offers read/write compatibility with the standard Apple /// disk. In other words, you can format and use a regular 140K Disk /// disk in the A143 but you cannot use a disk formatted for the dual-sided format in the Disk ///.

An attached cable and appropriate driver is included. You can daisy-chain the MicroSci drive from a Disk /// as long as the A143 is the final drive in that chain.

MicroSci A143 \$275

hard drives



ProFile Hard Disks - In Stock

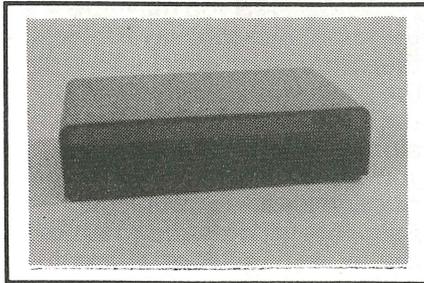
ProFile Hard Disk. For those of you who need even more storage, there's the ProFile™, Apple's 5 and 10-megabyte hard disk mass storage systems. Just to illustrate, the 5Mb ProFile will handle as much information as 35 floppy disk drives. It can store the equivalent of 1,200 pages of single-spaced, typed text.

The ProFile is fast, quiet and fits neatly on top of the Apple /// between the CPU and the monitor. It can also be used on the Apple II, II+ and IIe. When ordering let us know which computer you will be using it with so we can provide the proper accessory kit (included in price). The kit includes the appropriate interface card, cable and software driver, if applicable.

The ProFile has a proven track record and each one shipped from Sun has to perform up to certain levels throughout a 48 hour testing cycle. It requires the use of one of the expansion slots. More than one ProFile can be hooked up to your computer by inserting an interface card for each and addressing them by unique names.

The 5mb model is in good supply but the 10mb is not. So, please call before you order to insure availability. Some additional items you should consider when purchasing your ProFile for an Apple /// would be: Backup /// Utility, Catalyst Program Selector or Habadex.

ProFile 5mb \$595
ProFile 10mb \$999



Versatile Quark Drives - 10 and 20 mb

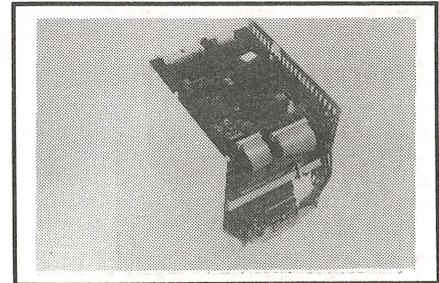
Quark Hard Drives. From the people who brought you Catalyst, the best seller among hard disk program selectors for the Apple, comes a line of hard disks that are really quite versatile.

Take your choice of the QC10 (10mb) and QC20 (20mb) hard disks. These are as hard working as they are reliable. By just activating a switch on the back of the drive you can offer the power of mass storage to an Apple IIe, Apple IIc, Apple /// or Macintosh (even without the SCSI port). The Quark drives hook up directly to the external floppy port and do not require additional interface cards.

These are completely new drives and come with a 90 day warranty. They sold originally for \$1295 and \$1795 respectfully, but now at Sun you can save hundreds.

When ordering please let us know what computer you will be using them on so we can include the proper cable and software.

Quark QC10 \$795
Quark QC20 \$895



A Faster and Larger Lisa/XI Alternative

Sun 20 Hard Drive System. One of the Lisa's shortcomings used to be that you were limited to only 10mb of internal disk storage. Well, no longer. After being asked by Apple to take over support of the Lisa (MacXL) we started work on developing a solution, and along with ProApp and Apple came up with a completely redesigned hard disk controller card...the Sun 20.

This new card not only solved the amount of storage challenge but also sped up the transfer of data remarkably (as much as three times in some cases). A built-in buffer allows information to be sent to the drive which allows you to get right back to work instead of "hurry up and wait". In fact, the Sun 20 drive is ready to work for you long before the system's self-test has finished. It also operates on a great deal less power.

The Sun 20 is made to fit into the Lisa 2.0 or the MacXL with just the use of two fingers. Simply pull out your current drive cage and slip in our new one. We include at no extra cost our Sun Hard Disk Startup which allows the use of HFS. (see article page 8)

Please let us know upon ordering which machine it is to be installed in so we can ship the appropriate hardware for hookup. We pre-load MacWorks, the System and Finder on each disk after testing at the factory. The Sun 20...a great way to upgrade your Lisa or MacXL.

Sun 20 Hard Drive System \$1195
Widget Tradt-in \$200

See HFS article on page 8.

When You Wish Upon a Star It Makes a Difference, Just Where in the HFS Are You?

Since assuming support for the Lisa (Macintosh XL), users have called us with their wish list of things they would like to see available for their computers. Right at the top of the list was more storage capabilities and HFS.

Since the new Sun 20 Hard Disk Drive satisfied the first, our new Sun HFS Hard Disk Startup Disk satisfies the second. And, boy is it satisfying.

For those of you that aren't familiar with HFS let us give you a short primer of its abilities and features. HFS (Hierarchical Filing System) is the replacement of the original MFS (Macintosh Filing System). The treatment of files as compared to the file cabinet analogy is carried out to its maximum in that HFS is a much more efficient way of handling files as well as having the capability of keeping track of many more files than MFS ever thought of tracking.

Here is an easy-to-understand example as explained by one of our service technicians: Any folder under HFS acts much like the branch on a tree. For example, you may have 300 files on your hard disk. Under MFS (the only system currently available to Lisa users) the computer must keep track of all 300 files whenever you go to the finder. That is why it takes so long to quit a program. It must rebuilt that complete file structure before building the desktop.

Under HFS you may put those 300 files into say 8 folders, then the system only looks at the 8 folders as files instead of the 300 individual files. By storing a folder within a folder you can store a lot of files on a huge disk with no problems. Even files with identical names can be saved withing different folders and manipulated independently without contaminating one another. Under MFS the total number of files on a disk has been somewhat limited.

Another problem that HFS under MacWorks XL has solved is that now you may write more that 16 megs of information onto a single drive, such as our new Sun 20 internal hard disk for the Lisa. And lastly, it also allows the Lisa to keep up with the newer programs by taking full advantage of their use of the Hierarchical Filing System.

A warning though: This program is not an "officially" released piece of software and does not purport to be fully tested. We are making it

available to users at a reasonable cost, even including it at no extra charge, already installed on our new hard disk drives, and with documentation that will give you some good hints on how to take advantage of its capabilities. But, so far, in our in-house testing it has performed admirably.

It is installed quite easily and is shipped on a disk that contains a special system file as well as a self-installtion program. Just follow the prompts and you're up and running under HFS in no time at all. It's installation does require the initialization of your hard disk so, you must back up your data prior to installation. The installation disk then becomes your boot disk. Upon boot, the system will ask for the startup disk before loading your hard disk. It's very similar to using a key disk with a copy protected program.

This is a product that you can genuinely get excited about! See our price list for pricing details.

HFS vs MFS
HFS vs MFS

SUN HFS HARD DISK STARTUP FOR LISA AND MAC XL

HFS vs MFS
HFS vs MFS

limited quantities - limited time

Your chance to save like never again as we make room in our warehouse for new items.

Conditions of Sale:

You must mention this ad, specific product and price indicated. There are no refunds, returns or exchanges.

ALL SALES ARE FINAL.

MINIMUM ORDER \$15.

UNDER \$100

PRODUCT	Our Reg. Price	Special Sale
BPI A/P IIe DOS 80 col.	\$159	\$79
BPI A/P II+	\$159	\$79
BPI A/R IIe DOS 80 col.	\$159	\$79
BPI A/R II+	\$159	\$79
MicroSci A143 Drive	\$375	\$99
80 col. Card II+	\$149	\$59

UNDER \$50

Access ///	\$75	\$35
Apple File ///	\$99	\$35
EasyTerm	\$75	\$35
Habadex /// (floppy ver.)	\$75	\$29
Infonet///	\$175	\$49
Information Network II	\$175	\$49
Mail List Manager ///	\$75	\$29
MicroCourier ///	\$75	\$35
Pascal ///	\$65	\$29
PFS:File ///	\$75	\$35
European Power Supply ///	\$150	\$29
Senior Analyst ///	\$75	\$35
State of the Art A/P ///	\$89	\$49
State fo the Art A/R ///	\$89	\$49
Titan ///+II (64K)	\$79	\$45
Titan 128K upgrade	\$59	\$30
MacWrite 2.20/MacPaint 1.3	\$99	\$39

BROKEN-NOT WORKING

SilenType Printers	\$5
Apple /// Keyboards	\$15
Monitor ///	\$19
II+ Cases (top & bottom only)	\$25

The above are broken and may not be complete units. There is no warranty, no refunds and no returns will be accepted.

UNDER \$25

Apple Graphics II	\$25	\$15
Apple Writer /// 1.1	\$29	\$15
Apple Writer Prod. Training	\$19	\$10
COBOL ///	\$89	\$15
Compac II	\$35	\$15
Fontwriter	\$75	\$19
Full Duplex	\$49	\$25
Hand Controllers	\$29	\$12
Logo II	\$50	\$15
Logo IIe	\$75	\$24
NPL ///	\$75	\$15
Pascal Debugger	\$35	\$15
Pascal Toolkit	\$30	\$15
Pascal Filer & Editor Man.	\$19	\$10
Pascal Man. Vol 1&2	\$30	\$15
Pro. Prep Tools Man.	\$19	\$10
Pascal Prog. Utilities	\$35	\$15
Plotter Pens (7mm paper)	\$5	\$1
PScreen	\$75	\$19
RPS ///	\$89	\$15
Script ///	\$75	\$15
Senior Analyst II	\$40	\$15
Silentype Interface II	\$15	\$9
Softcard /// (CPM)	\$79	\$19
SOSTran	\$75	\$19
TAP	\$75	\$19
VisiCalc Prod. Training	\$19	\$10
Bus. Graphics Training ///	\$19	\$10
IIc Carrying Case	\$20	\$12
/// Carrying Case	\$79	\$19

Sale Prices must end May 15, 1987!!

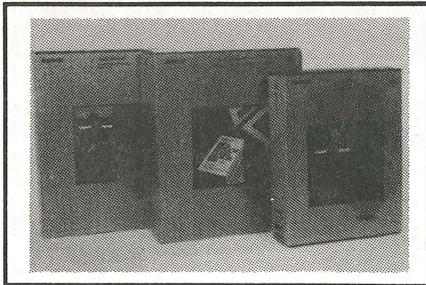
CALL OUR TOLL-FREE ORDERLINE

1-800-821-3221



For Questions or Service Call
801-752-7631

apple /// software



Accounting

BPI General Accounting. Double-entry bookkeeping family of products for the Apple ///. Modules include: General Accounting, Accounts Receivable, Accounts Payable and Payroll. General Accounting module combines general ledger with subsidiary accounts receivable, accounts payable and payroll ledgers in one software package. Lets you print customer statements and checks for payroll, accounts payable and expense accounts, as well as a complete set of reports. *Requires a hard disk.* BPI is our best selling accounting package.

BPI.

Prices Start at \$89
Special Bundle (G/L, A/R, A/P) \$195

State of the Art Accounting System. Offers a comprehensive choice of stand-alone or fully integrated accounting packages, including General Ledger, Budget and Financial Reporting, Accounts Receivable, Accounts Payable, Inventory Control, Sales Invoicing and Professional Time & Billing. This system is made to be worked with floppy disks but can be mapped to a hard disk with an optional mapper kit (per program). Also, at the price we are offering these programs, backups are not included but are available at extra cost. **State of the Art.**

Prices Start at \$89
Special Bundle (G/L, A/R, A/P) \$195



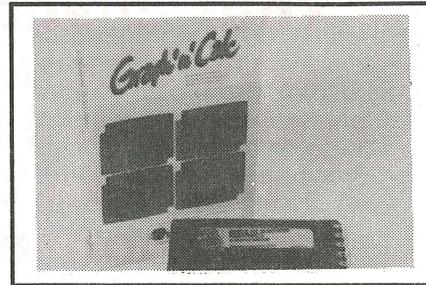
Integrated Software

/// E-Z Pieces. If you are familiar with AppleWorks for the Apple II you are familiar with /// E-Z Pieces. Integrated spreadsheet, data, and word processor that loads multiple files. Easy cut and past within and between files. All programs use same commands. On-line help messages. Spreadsheet handles up to 999 rows and 126 columns; flexible column width; repeat formulas; ultra-fast sorting. Feature-rich word processor prints exactly what you see. This is definitely the best, most useful software package for the Apple ///. **Haba Systems.**

/// E-Z Pieces \$99
/// E-Z Pieces Templates \$49
Haba Merge (mail merge) \$49

Habadex Program Selector. A program that does double duty! Allows you to load up to 24 programs onto your hard disk, then access them easily from a main menu. Eliminates separate boot and program diskettes. Also includes a handy telephone dialer, calendar and data base. Available in floppy or hard disk versions. **Haba Systems.**

Habadex Floppy Version \$49
Habadex HD Version \$75



Graphics

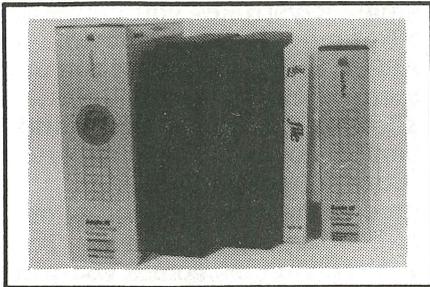
Business Graphics ///. Accepts data from any SOS-compatible application, such as VisiCalc, Desktop Plan, or Senior Analyst. Plots a variety of graphs, including bar charts, and scatter diagrams, and includes statistical analysis. It displays graphs on a variety of printers and plotters. To work with some of those devices program must have a Driver Update performed or be PIK'd (available at extra charge). **Apple Computer.**

Business Graphics /// \$75
B.G. Product Training Pack \$19
Printer PIK Service \$15

Graph 'n Calc. Combination business graphic development and analytical computation package that develops five different types of graphs and charts. Graphs may be printed on Apple Imagewriter or on an Epson printer with Grafrax. A special plotter driver is also available direct from Haba at additional cost. Graphs created on video display may be saved to disk for later showing by integrated "slide show" system that is included. **Haba Systems.**

Graph 'n. Calc \$75

Dem
59.95



Data Base and Records Mgmt.

/// E-Z Pieces. See description under Integrate Software.

Mail List Manager. Maintains and generates mailing lists. Stores up to 960 entries on one floppy disk; any number of disks may be combined to create a larger mailing list. Fast sorting routines allow user to sort an entire disk of mailin labels in less than two minutes. **Apple Computer.**

Mail List Manager \$75

Quick File ///. Here is an easy-to-use filing system for managing small to medium-size collections of information. With **QuickFile ///**, a doctor, small business owner, homemaker, or scientist can quickly turn receipts, notes, lists and schedules into coherent files and reports. It allows simple arrangement of records in alphabetic, numeric, date or time order. It can selectively search, display and summarize records as well as calculate totals and subtotals of numeric information. In addition, it incorporates both tabular and record presentation, complete sorting and selection, calculated columns and group totals, and flexible report generation. Output format is compatible with AppleWriter /// and ///E-Z Pieces. **Apple Computer.**

Quick File /// \$75

Apple File ///. Lets user store, arrange, and reveiw records, and print reports with data summarized in totals, averages, and counts. Handles large files. Maximum file size of 16 megabytes with up to 80 fields per record. For a 100-character record with three record keys, allows 20,000 to 30,000 records per ProFile hard disk system. Features such as password and entry rules ensure data integrity and security. Requires hard disk. **Apple Computer.**

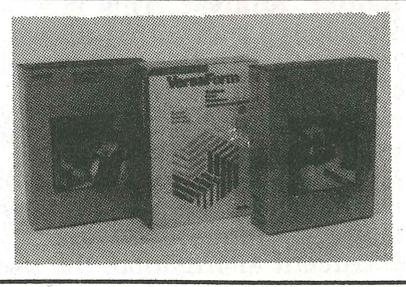
Apple File /// \$50

PFS: File. File allows the user to set up a data base with variable field sizes, and allows storage and retrieval of upto 32,000 entries. A form-oriented information management system, it lets you arrange information in user-defined "forms" and even allows chages to the original form without having to redo the information it contains. Includes a report generator. **PFS.**

PFS:File \$89

Keystroke Data Base and Report Generator. Relational data base and report generator. Exchanges data with VisiCalc, merges data for Apple Writer and Word Juggler; converts Quick File and PFS:File data into keystroke. Features computed and default fields, field formatting, scratch pad, flexible report design and report previewing and highlighting. **Brock Software Products.**

Keystroke Data Base \$150
Keystroke Report Gen. \$50



Financial Modeling & Analysis

VersaForm. VersaForm incorporates a powerful and flexible set of user friendly procedures which allows a non-programmer to set up business forms, store them as files and generate analyses and management reports from their data. A rich set of automatic-filing, data-entry-checking and calculation options may be chosen to enhance accuracy and speed input. A data-base reporting system produces detailed summaries of any data items contained within a file of forms. The program can format a printed output to match a preprinted form as though it were manually typewritten. Common applications of VersaForm include invoicing/accounts receivable; purchase order generation/operations management; professional time and billing; estimation/job costing and personnel records/benefit accrual reporting. The hard-disk version allows file sizes of up to 4 megabytes. Data disks may be inter changed between Apple // and Apple /// systems. **Applied Software Technology.**

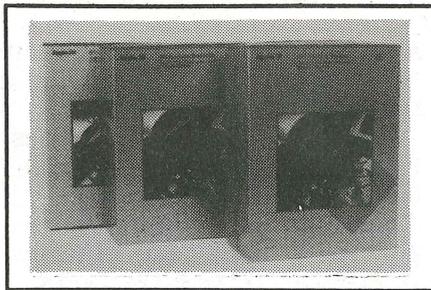
VersaForm \$99

Senior Analyst. This is a modeling package that allows you to create a financial model of virtually unlimited size. It was designed and written to be used by managers and professionals in a corporate environment. Because it's easy to analyze, consolidate and document information, the user can perform complex calculations easily and quickly using the software's more than 20 built-in functions. They include Net Present Value, Compound Growth Rate, three kinds of depreciation, sum, minimum, maximum, linear regression forecast, and more. Sales reports, budgets, and other management information can be merged into one report. In addition, data can be pulled from existing reports to be consolidated into new reports. This financial database feature gives managers tremendous flexibility in creating reports or in viewing and analyzing data. It also features a "spooling" capability, which means that even a long model can begin to print as you continue to do other work on your computer. **Apple Computer.**

Senior Analyst \$75

VisiCalc ///. ViciCalc /// is a powerful "electronic worksheet" version of the well-known VisiCalc software, designed especially for use with the Apple ///. It virtually eliminates calculator, paper, and pencil in developing plans and analyzing results. Its extensive, built-in-library of financial, statistical, scientific and modeling functions take advantage of the Apple ///'s memory. You can quickly and accurately solve just about any problem that can be put in a row- and column format. You don't have to be a programmer to use this as the commands are simple, straightforward and powerful.

VisiCalc /// \$75
VisiCalc Prod. Training Pack \$19



Word Processing & Spell Checking

Script ///. This program is a text formatter for files created by the Pascal Editor. It adds style to printed Pascal text files because it allows the user to format programs, documents - any text using the Apple /// Pascal Editor - with greater ease and flexibility than before. Script /// allows the user to embed commands in an Apple /// Pascal text file and get layout-perfect printouts every time. With it the user can designate line spacing, margins, and page breaks; paginate using headers or footers; and underline, center-, left- and right-justify text. **Apple Computer.**

Script /// \$75

AppleWriter. This is a sophisticated program that turns your system into a sophisticated word processor that allows you to create, edit, format, and print documents. It includes full text-editing capabilities such as find-and-replace, move text, change case, duplicate text, and underline. Print commands can be embedded in the body of the document to provide powerful control and great flexibility in the look and format of final printed text. It also includes the powerful Word Processing Language (WPL) as an added tool for creating and archiving special commands and subroutines. Included in the package is a keyboard template allowing ready reference to

single keystrokes you define for frequently used commands. **APPLE SPELLER** can be run as a menu option of Apple Writer, allowing the user to verify and correct document spelling and return directly to word processing without booting or re-booting either program. The 2.0 version also comes complete with a two-disk training system for new users. Version 1.1 is much the same but will not support the Speller and comes with a little less in the way of documentation. **Apple Computer.**

AppleWriter 1.1 \$29
AppleWriter 2.0 \$75
Apple Speller \$50.00
2.0 & Speller Bundle \$99
Writer Prod. Training Pack \$19

Apple Speller. This spelling verification program allows the user to check any size document for spelling errors, word usage, word count and vocabulary analysis automatically. It works with documents produced by Apple Writer 2.0 or greater. (silver label, not black, version 1.1). The program contains an 83,000 word dictionary, based on the Random House Dictionary, and lets the user create specialized dictionaries, add words, or even delete words not often used. It also provides an auxiliary dictionary with an additional 3400 words in for categories: geography, names, figures, and abbreviations. **Apple Computer.**

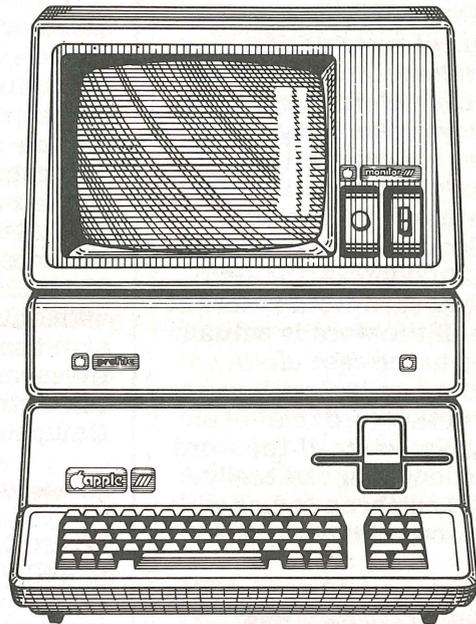
Apple Speller \$50
2.0 & Speller Bundle \$99

Word Juggler/Lexicheck. This is a powerful word processing package that combines a general-purpose word processing program with spelling dictionary, mail list and typesetting features. Page length, margins, or other formatting parameters can be easily changed by referring to a

Save a bundle on the whole kit and kaboodle.

This bundle means business. Here's all the power you need to tackle the big jobs. No computer on the market today has ever matched the Apple /// when it comes to small business accounting. With 256K RAM and a ProFile hard disk you can store up to 2,400 pages of information. That's a lot of debits and credits.

And if the power isn't enough to convince you the price certainly will. We have a very limited quantity of these special bundles to sell. Hurry and order yours...the kit, the kaboodle and all!



Bundle Includes: Computer, Monitor and ProFile Hard Disk

FREE REPLACEMENT GUARANTEE!

Quantity Discounts Available

\$ 999

1-800-821-3221 ORDERLINE -

Unless otherwise noted equipment is reconditioned with a 30-day warranty. Manuals are not supplied with reconditioned equipment but are available separately at extra cost. A complete copy of Sun's Warranty is available on request

Basic Bundle.....

A great starter system for home of business. Contains: Apple ///, 256K and Monitor ///.

\$ 599

Double Bundle.....

Take the best of both. Contains the same as the Basic Bundle but adds the Titan ///+IIe boards to allow you to run thousands of Apple II programs as well as ///.

\$ 749

apple /// software

unique keyboard template. Word Juggler can handle documents up to 254 columns wide. Special printer filters allow the user to take advantage of bold printing, underlining, superscripts and subscripts, and microspace justification can be done with most letter-quality printers. Form letters can also be created with an exclusive "fill-in-the-blank" feature.

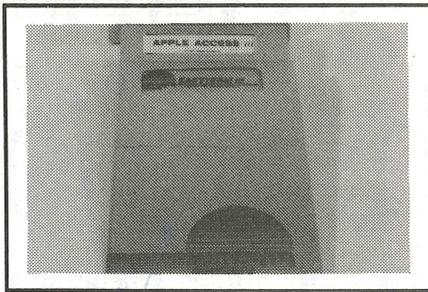
LEXICHECK: A spelling checker included as part of Word Juggler. Lexicheck allows the user to eliminate almost all typographical errors and common misspellings. It can be accessed from Word Juggler with a single keystroke. Long documents are scanned for misspellings as fast as 14,000 words per minute. When you check a document, it will highlight, in context, the first occurrence of each word it doesn't recognize. If the word is actually correct, as in the case of abbreviations or jargon, you can simply add the word to a personal dictionary. If the word is misspelled you can easily correct it. Lexicheck comes with a 50,000 word dictionary. **Quark.**

Word Juggler/Lexicheck \$99
Legal Dictionary \$55

Communications

EasyTerm ///. This is a terminal program that gives the user the ability to send an ASCII file from disk, as well as to receive a file from almost any other computer through a modem. It is much easier to use than most other communications programs. There is a minimum of commands to remember. Uploading and Downloading are as easy as Control-Up-Arrow and Control-Down-Arrow. A direct terminal mode is also supported with speeds of up to 9600 baud. **Sun Remarketing.**

EasyTerm /// \$75



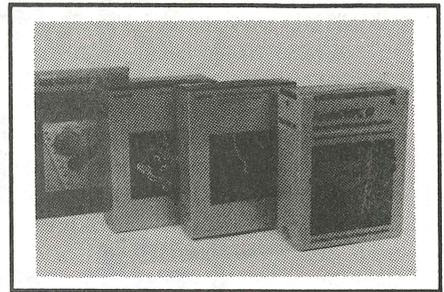
Access ///. This is a popular program that provides you with Digital VT100 and VT52 terminal emulation. It transforms the Apple /// into a conversational terminal that can communicate with a variety of computers and timesharing system. By connection a modem to the Apple /// it allows communication at 110, 300, 1200, 2400, 4800 or 9600 baud. Includes recording to disk and file transmission. You can work with this program off-line, significantly cutting timesharing charges and computer costs. **Apple Computer.**

Access /// \$75

MicroCourier. This communications program for the Apple /// allows you to transmit and receive messages, reports, correspondence - any information - to and from other Apple computers, minicomputers and timesharing systems. It can handle your communications automatically (unassisted) day or night over standard telephone lines. **Apple Computer.**

MicroCourier \$75

Infonet. Infonet is an electronic bulletin board system that allows the user to set up and maintain accounts (mailboxes) with different priority levels for mail or general reading. Different levels are controlled by the system operator through the use of user passwords. Customers can phone in to read what's new. Sales people can



move files from home to work or vice versa. The same system could work quite well for a customer's business, user groups or OEM's. Infonet comes with utilities and file maintenance programs and requires a ProFile Hard Disk or equivalent. **Sun Remarketing.**

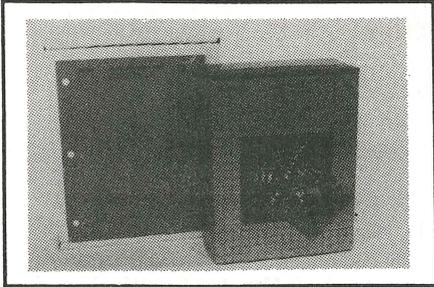
Infonet \$175

Languages

Business BASIC. Business BASIC for the Apple /// is a powerful BASIC language program that is especially adapted for writing programs for a business environment. It incorporates a number of powerful extensions and special features that make it versatile and easy to use. It is the one of the most popular languages found on many minicomputers. It includes easy-to-use graphics and program structures. All BASICs have their own peculiarities, and attempting to get a program to run without understanding the peculiarities of Business BASIC can be frustrating. The program manual is good but, the McGraw-Hill Guide to the Apple /// (available separately) has 6 excellent sections on the language and will ease the new user into it and help the seasoned programmer pick up on this version very easily. **Apple Computer.**

Business BASIC \$75
McGraw-Hill Guide to /// \$14.95

apple /// software



Pascal ///. A general-purpose high-level language, Pascal /// was the first to implement IEEE floating point standard. It offers compiled language which enables programs to execute quickly in minimal space. Its variety of data types, control function, and powerful utility routines can dramatically improve a programmer's productivity on large products. Apple /// Pascal provides the programmer with a high level of portability because it's based on UCSD Pascal, the microcomputer industry standard. Users can access large existing libraries of Pascal programs, and can run Apple /// Pascal programs with minimum conversion on most computer systems offering Pascal. The source program is also compatible with routines written in Apple II pascal, so programs can be easily transported without being redeveloped. **Apple Computer.**

Pascal /// \$65

other upgrades and Pascal items available - see price list page

NPL ///. A valuable tool for sorting and selecting the essential information in datafiles. NPL is a "Fourth Generation Language", a system for application development without conventional programming. For novice and programmers alike. Simpler to use than BASIC or COBOL. **Apple Computer.**

NPL /// \$75

COBOL for the Apple ///.

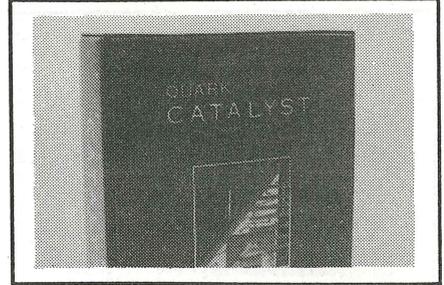
The Apple /// version of COBOL is certified at a higher level than is available for most other minicomputers. Its features take advantage of the larger memory, advanced input/output and the other capabilities of the Apple ///'s Sophisticated Operating System (SOS). It features Animator, a powerful, screen-oriented, source-level debugger. Animator provides an "animated" view of actual program execution, and allows the programmer to run a program one statement at time or continuously while watching its execution. The program can be stopped and the value of any data item checked and changed before continuing. This not only allows programmers to debug an application efficiently, it also makes Apple /// COBOL a good teaching system because the student can actually see his or her code executed. It features FORMS-2, a COBOL source-code generator which lets the programmer begin with a blank screen and end with a fully-operational program. FORMS-2 interactively creates data entry screens and generates COBOL source for use in a program. **Apple Computer.**

COBOL /// \$69

Utilities

Backup ///. This is a backup utility for the ProFile. It has the ability to back up either the entire hard disk or only those files which have been modified since the previous backup. Does not ship automatically with ProFiles shipped from Sun. Must be purchased separately. **Apple Computer.**

Backup /// \$30



Catalyst. This program selector eliminates the need to swap disks when changing applications by permitting the user to boot from the ProFile hard-disk system. Switching from one application to another requires only one keystroke. Many applications can be self-loaded. This is the latest version 2.1. It comes with Discourse Spooler.

DISCOURSE SPOOLER: This is a software print spooler that lets the user take advantage of the Apple ///'s interrupt capability through SOS, send a file to be printed and continue working on another file on the Apple ///. **Quark.**

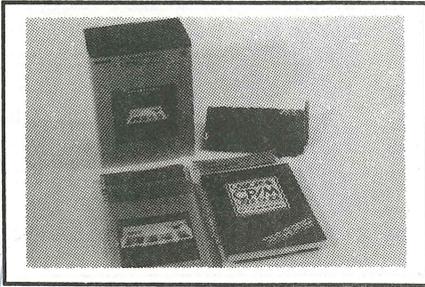
Catalyst /// \$99

RPS ///. RPS - Record Processing Services provides file management service for programs handling large quantities of data. The multkey (up to 8 fields or field segments per key) file access method allows files to be readily interchanged among programs build on RPS. RPS saves software development time and provides compatibility with different applications (such as Apple File and others) and their data files since data is not locked up in any one program. It is a Pascal-based program. Permits both random and sequential access to files.

- Maximum file size - 16 megabytes
- Six access modes
- B+ tree index structure. **Apple Computer.**

RPS /// \$75

apple /// accesories

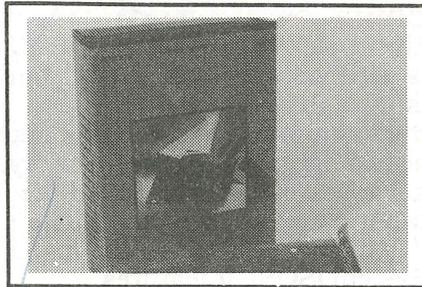


SoftCard ///. The Apple SoftCard // System is a complete hardware and software package that lets you access the many business, science and education applications based on the widely-used CP/M operating system and the Z80 microprocessor. Thanks to the flexible design of the Apple /// and to the Apple ///'s powerful Sophisticated Operating System (SOS), you can now run these CP/M programs AND take advantage of all the benefits offered by Apple's ProFile hard disk mass storage system, as well as the easy configurability of the Apple /// itself.

It will also provide a number of useful utilities, including an 8080 assembler, debugger, editor, and programs for formatting and copying disks. The SoftCard /// lets you use the versatile Microsoft BASIC programming language.

We have upgraded each original package with the latest 2.21 CP/M update.

SoftCard /// CP/M \$79.00



Universal Parallel Interface Card UPIC. The Apple /// Universal Parallel Interface Card is a simple yet powerful extension to your Apple ///. Using nothing other than the UPIC, a supplied cable and the proper driver, you can set up your Apple /// to do eight-bit parallel data transfers either to a printer, or both to and from a terminal or another computer.

The UPIC card installs in one of the expansion slots in the back of your /// (preferably slot 1). It does a great job of supporting graphics commands. Apple ran out of these and the demand was so high that we went to Taiwan and had a new batch manufactured.

UPIC Card and Cable \$75.00

Serial Card ///. If you need to give your Apple /// an additional RS-232C port, this is the way to do it. Apple's Serial Card /// will allow you to connect an additional modem, printer, plotter or other accessory that requires a serial interface. It features an on-board switch that lets it operate as either a printer or modem port.

It installs in one of the Apple ///'s expansion slots.

Serial Card /// \$79.00

Titan ///+II. You've probably notice by now that your standard Apple II emulation disk is quite limiting with many of the most popular programs for the Apple II. Well, you can do better by adding a Titan /// +II card. It brings you up from Apple II emulation at 48K up to 64K. And, with the optional upgrade you can boost the useable emulated memory up to 128K.

**Titan ///+II \$79.00
128K upgrade \$59.00**

Titan ///+IIE. If the above emulation fix is not enough then consider the Titan ///+IIE. Now you can have the ability to emulate and Apple IIE up to 128K on your Apple ///. A nice way to enjoy the best of both worlds.

The system is made up of two interface boards that install in slots two and three in your Apple ///. It included emulation software that supports a full 80-column display, including uppercase and lowercase letters. A serial printer using the Apple ///'s built-in serial port as well as the ProFile hard disk is also supported. You can access the Apple /// clock/calender, if one is installed from ProDOS.

A speedy ProDOS RAM disk used the Apple ///'s RAM and is automatically available in IIE emulation. And, a fast 128K SOS RAM disk that uses the /// plus IIE's RAM is available in Apple /// operation.

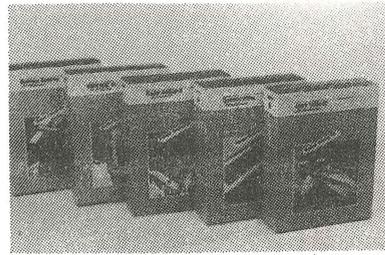
The Titan ///+ IIE works with either a color composite or black and white composite monitor. RGB monitors are not supported. When your not using the IIE emulation, your Apple /// will work as usual.

A great enhancement product that enables you to enjoy almost all Apple III business, educational, and recreational software on your Apple ///, including programs for the Apple II, II+, IIE, and IIC.

Titan ///+IIE \$199.00

Rate

accessories



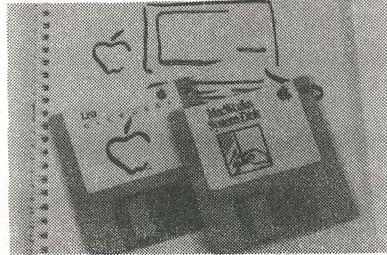
Apple /// Manuals. If you would like to know how to or why...then consider one of the manuals we stock for the Apple ///. Many are out of print and we have obtained permission to reprint and make them available to our customers.

- Device Drivers Writers Guide** \$19.00
- Dot Matrix Printer Manual** \$19.00
- Driver Installation Sheet** \$3.00
- Guide to Apple /// (McGraw-Hill)** \$14.95
- Guide to Apple /// Software** \$3.00
- LQP Manual** \$10.00
- Pascal Program Manual (Vol. 1&2)** \$35.00
- Pascal Prog. Prep Tool Manual** \$19.00
- Pascal Filer & Editor Manual** \$19.00
- ProFile Manual** \$20.00
- SilenType Printer Manual** \$10.00
- SOS Reference Manual** \$30.00

Product Training Packages.

If you're having trouble making sense of software manuals then a product training kit might be just the relief you've been seeking. These are designed as step-by-step tutorials available for many of the more popular software titles for the Apple ///.

- AppleWriter Product Training** \$19.00
- Bus. Graphics Product Training** \$19.00
- System Utilities Product Training** \$19.00
- VisiCalc Product Training** \$19.00



MacWorks XL. This is the program that allows you to run Macintosh software on a Lisa. It is included at no additional cost when you purchase any Lisa Professional system from Sun. With MacWorks, you can use your Lisa just as you would a Macintosh.

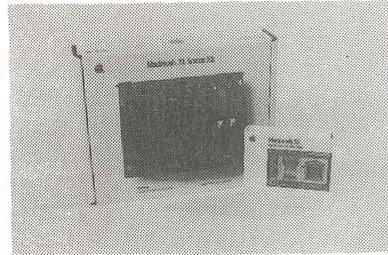
The MacWorks program is used as a boot disk to get you into the Macintosh emulation function. It can be loaded onto a hard disk for automatic startup.

There are some limitations with this program...it is not 100% Macintosh compatible. Most of the popular programs from major developers work just fine. We see problems when developers have taken shortcuts or not stuck strictly to the Mac toolbox. Also games, because of the absence of a four-voice sound generator on the Lisa, can sometimes not work correctly if the developer has not addressed that variable.

Because of the difference between the Macintosh and Lisa screen pixels, everything will appear to be a little bit taller when displayed on the Lisa. Don't worry, though; when you print a document on your Lisa, it will look exactly the way it would of a Macintosh. Also, an optional Screen Modification Kit can correct that problem as well. But, the Lisa screen size is definitely a blessing.

This is a great life extender to the Lisa and well worth the money! A Diskette and manual is provided.

MacWorks XL 3.0 \$125.00



Screen Modification Kit.

This is an optional kit for the Lisa or Macintosh XL that will square up the pixels on the screen to more closely resemble the output when operating under the Macintosh System. In other words, squares look square and circles look round on the screen as well as the printed output.

The installation of this kit **MUST** be done by a qualified technician. We will install it in our service center or you must sign a legal release of liability before we ship the product as it can be very dangerous when working around the video portion of your computer.

The only documentation included is strictly software related, Apple taking for granted that only qualified personnel would handle field installation.

It does require that your hard disk be dedicated strictly to MacWorks. All 7/7 files should be removed. Included are new ROM's, software and a transformer.

This a valuable fix for those using paint, draw or desktop publishing programs such as Pagemaker.

Screen Mod. Kit \$79.00

Look For Our Ads In These Magazines...

**COMPUTER
SHOPPER**

MACWORLD

MICROTIMES

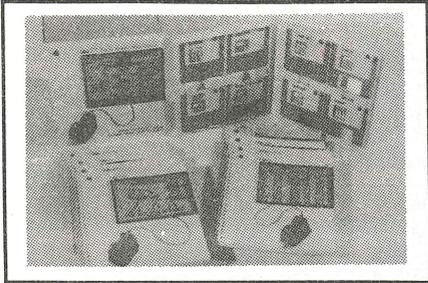
AT
Apple II/Macintosh
THE INDEPENDENT GUIDE TO APPLE COMPUTING

MacUser

COMPUTE!

THE /// MAGAZINE

accessories



Lisa 7/7 Office System. This is one of the first really user friendly software systems. There are still lots of people that will use nothing else. Seven integrated programs are combined to complete this package with the most valuable applications wanted in most offices.

The applications included are: LisaCalc, LisaTerminal, LisaDraw, LisaGraph, LisaList, LisaProject and LisaWrite. Taken individually, each is a powerful professional office tool. Taken together, they allow you to do things that simply weren't possible before.

To take full advantage of Lisa 7/7 you'll need a Lisa 2 with 1 megabyte of main memory and a hard disk. The hard disk, under usual circumstances can be partitioned to run both the Lisa system and MacWorks.

Lisa 7/7 Office System \$295.00



AST RAMSTAK. Ever run out of memory on you Lisa/MacXL? here is the solution. Add an additional 1 1/2 megabytes for up to 2 full mb of RAM and take advantage of such programs as OverVue, Omnis 3, Ewcell, Jazz, Switcher, PageMaker and more.

This is a single-slot memory expansion board that is fully compatible with Apple's 512K memory board. Fully populated this board will take you to new heights in productivity on your Lisa. AST is a company with great pride and experience. Each board comes with a 2-year limited warranty.

AST 1 1/2 Mb RAMSTAK \$699

Sun HFS Hard Disk

Startup. For those of you who want better compatibility with the Macintosh System this is the simplest most complete solution on the market! And, it's about time.

Using this program as your boot or startup diskette you can install the Hierarchical File System (HFS) on a ProFile, Widget or new Sun 20. It makes file management much more efficient and dramatically affects the speed of quitting to the finder. It also allows for a greater amount of files on any disk.

The program is almost self-installing. You must, however, back up all your files first as you must reinitialize your disk and install the new directory. Simply follow the screen prompts and you'll soon see that tiny little HFS pixel in the left portion of the title bar.

Package includes program with latest finder and special XL HFS System, backup diskette and manual with HFS hints and tips.

Sun HFS Startup \$30.00

When You're Ready to Mouse Around...



AS LOW AS **\$799**

Do it for less with a Lisa.

At this price configured with 512K RAM,
400 K Internal Drive, MacWorks XL.
Reconditioned — Warranted

Runs Macintosh Software!

Lots of Power and Features

The Lisa Professional. A powerful computer that's as easy to run as any Macintosh™ yet a whole lot easier to afford! It comes standard with a larger 12" screen, detached keyboard with numeric keypad and available in several affordable configurations. Now available with HFS! (Shipped at no extra charge with 20Mb system.)

More than 95% of available Macintosh software runs on the Lisa. Call today for our free Lisa Fact Book and see how the Lisa can handle the application you have in mind for much less than you would spend on a newer Mac and hard drive.

RAM	Drive	Price
512K	400K Internal	799
1Mb	5Mb ProFile	995
1Mb	10Mb Int. HD	1495
1Mb	20Mb Int. HD	1995^{New}
Lisa Office System (7/7)		295
Sun XL HFS HD Startup		30^{New}

90 day Warranty. 30 day satisfaction guarantee - If you're not totally satisfied after 30 days we will refund the purchase price of the computer. Your cost is shipping only. Some equipment is reconditioned, please call for details

The **Lisa**™
Professional



ORDERLINE -
1-800-821-3221



801-752-7631
Questions — Service



Sun - The Nation's Largest Support Center For the Apple ///.

ITEM	SUGG LIST	OUR PRICE	WITH COMP	SHIP CHGS
HARDWARE* APPLE ///				
Apple /// with monitor (128K)	1995.00	549.00		34.26
Apple /// without monitor (128K)		499.00		22.12
Apple /// with monitor (256K)	2195.00	599.00		34.26
Apple /// without monitor (256K)		549.00		22.12
Apple ///+ with monitor (256K)	2795.00	699.00		34.26
Apple ///+ without monitor (256K)		649.00		22.12
Apple ///+ w/monitor (Brand New)		999.00		34.26
Apple ///+ w/out monitor (Brand New)		949.00		22.12
Apple /// with monitor and 5 Mb ProFile	3890.00	999.00		49.75
Apple /// with monitor and Titan ///+IIe	2694.00	749.00		38.16
Monitor /// (Apple)	249.00	85.00	50.00	12.14
Monitor /// (Apple) New	249.00	125.00	125.00	12.14
Monitor /// (Seconds, slight imperfections)		39.00	39.00	12.14

*All equipment reconditioned and do not include manuals unless otherwise noted.

DRIVES *

MicroSci Drive A-143 (new)		275.00	250.00	5.48
Disk /// (Apple)	435.00	190.00	150.00	5.48
Disk Adapter for ///+		20.00	20.00	1.24
ProFile 5 Mb Hard Disk	1695.00	595.00	595.00	15.49
ProFile Accessory Kit - new (II & III only)		99.00	99.00	3.90
ProFile Cable (/// & Lisa)		24.00	24.00	3.90
Quark 10 Mb Hard Disk (II, /// or Mac) new	995.00	795.00	795.00	15.49
Quark 20 Mb Hard Disk (II, /// or Mac) new	1195.00	895.00	895.00	15.49

*All equipment reconditioned and do not include manuals unless otherwise noted.

ACCESSORIES *

256K Memory Upgrade (Ex. Refund of 100.00)		300.00	300.00	5.00
Carry Case for the ///	129.00	59.00	49.00	5.40
Clock Kit - with instructions	50.00	30.00	25.00	2.00
CPM Upgrade 2.21		25.00	25.00	3.90
Serial Card ///	139.00	79.00	65.00	3.90
Softcard /// (CP/M)	450.00	79.00	79.00	3.90
Titan ///+ IIe (80 col. emulation)	499.00	199.00	199.00	3.90
Titan ///+ II (64K)	299.00	79.00	59.00	3.90
Titan ///+ II Upgrade (128K w/RAM disk)	199.00	59.00	49.00	3.90
Video Interface Kit - with instructions	75.00	50.00	50.00	2.00

*All equipment reconditioned and do not include manuals unless otherwise noted.

PRINTERS* FOR ///

Apple Letter Quality Printer	2195.00	495.00	395.00	24.19
ImageWriter (Apple) sold with system only		345.00	345.00	17.13
ImageWriter 15" sold with system only	595.00	445.00	445.00	22.56

*All equipment reconditioned and do not include manuals unless otherwise noted.

PRINTER ACCESSORIES FOR ///

ImageWriter Acces. Kit (incl. cable & manual)	50.00	35.00	35.00	3.90
LQP Tractor Feed	150.00	95.00	75.00	4.83
LQP Cut Sheet Feeder		199.00	199.00	15.70
LQP Manual		10.00	10.00	2.00
Modem Eliminator Cable	29.95	10.00	10.00	1.24
Plotter Pens (set of 4 - 7mm paper)		5.00	5.00	1.00
Printwheels (Apple LQP)		4.90	4.90	1.00
Ribbon (Apple LQP)		7.50	7.50	1.00
Ribbon (ImageWriter or DMP)		7.50	7.50	1.00
Serial Card ///	139.00	79.00	65.00	3.90
Serial Printer Cable	34.95	24.00	19.95	1.24
SilenType Paper (per roll)	5.95	3.95	2.95	1.00
Univ. Parallel Interface Card & Cable /// (UPIC)	195.00	75.00	59.00	3.90
UPIC Cable only		24.00	19.00	3.90

MANUALS/TRAINING FOR APPLE ///

AppleWriter Product Training	35.00	19.00	19.00	3.90
Business Graphics Product Training	35.00	19.00	19.00	3.90
Device Drivers Writers Guide	25.00	19.00	19.00	3.90
Dot Matrix Printer Manual (Apple)		19.00	19.00	3.90
Driver Installation Sheet		3.00	3.00	1.00
Guide to Apple /// (McGraw-Hill)	19.95	14.95	14.95	3.90
Guide to Apple /// Software		3.00	3.00	2.00
LQP Manual (Apple)		10.00	10.00	3.90
Pascal Program Manual (Vol 1 and 2)		35.00	30.00	3.90
Pascal Program Prep. Tool Manual		19.00	19.00	3.90
Pascal Filer & Editor Manual		19.00	19.00	3.90
ProFile Manual		20.00	10.00	3.90
SilenType Printer Manual		10.00	10.00	3.90
SOS Reference Manual	50.00	30.00	30.00	3.90
System Utilities Product Training	35.00	19.00	19.00	3.90
VisiCalc Product Training	35.00	19.00	19.00	3.90

Sun Data offers lower prices on all software and accessory items with the purchase of a computer.

SOFTWARE FOR APPLE ///

/// Easy Pieces	245.00	99.00	75.00	3.90
/// Easy Pieces Templates	89.00	49.00	49.00	3.90
Access ///	195.00	75.00	50.00	3.90
Apple File	195.00	50.00	50.00	3.90
Apple Speller	195.00	50.00	50.00	3.90
Apple Writer 2.0 with Speller Bundle	470.00	99.00	99.00	7.80
Apple Writer 2.0	275.00	75.00	50.00	3.90
Apple Writer 1.1	275.00	29.00	29.00	3.90
Apple Writer Product Training	35.00	19.00	19.00	3.90
Backup ///	50.00	30.00	30.00	3.90
BPI ACCOUNTING SERIES				
Special Bundle (G/L, A/R, A/P)	1485.00	195.00	175.00	7.65
Accounts Payable	495.00	89.00	65.00	3.90
Accounts Receivable	495.00	89.00	65.00	3.90
General Accounting	495.00	89.00	65.00	3.90
Job Costing	495.00	189.00	159.00	3.90
Payroll	495.00	89.00	65.00	3.90
Business Basic	125.00	75.00	50.00	3.90
Business Graphics (must PIK)	175.00	75.00	50.00	3.90
Business Graphics Product Training	35.00	19.00	19.00	3.90
Catalyst	195.00	99.00	75.00	3.90
Catalyst Upgrade 2.1 (disk only)		15.00	15.00	3.90
Cobol	495.00	69.00	50.00	3.90
CP/M 2.21 Upgrade		25.00	25.00	3.90
EasyTerm	80.00	75.00	50.00	3.90
Emulation Diskette][for ///		10.00	10.00	1.00
Graph 'n Calc	129.95	75.00	50.00	3.90
Habadox Program Selector	150.00	75.00	50.00	3.90
Haba Merge (/// EZ Pieces compatible)		49.00	49.00	3.90
IMP Communications (CP/M)		25.00	25.00	3.90
Infonet	200.00	150.00	125.00	3.90
Keystroke /// (Report Generator)		50.00	45.00	3.90
Keystroke /// (Data Base)		150.00	135.00	3.90
Mail List Manager	95.00	75.00	50.00	3.90
Master Driver Diskette		15.00	15.00	1.00
MicroCourier	95.00	75.00	50.00	3.90
NPL /// (Non Programers Language)	150.00	75.00	50.00	3.90
Pascal	250.00	65.00	49.00	3.90
Pascal Update 1.2		35.00	30.00	3.90
Pascal Program Manual Vol. 1 and 2		35.00	30.00	3.90
Pascal Program Prep Tool Manual		19.00	19.00	3.90
Pascal Filer and Editor Manual		19.00	19.00	3.90
PFS:File	125.00	75.00	65.00	3.90
QuickFile	100.00	75.00	50.00	3.90
RPS	195.00	89.00	65.00	3.90
Script ///	125.00	75.00	50.00	3.90
Senior Analyst	195.00	75.00	50.00	3.90
STATE OF THE ART ACCOUNTING				
Special Bundle (G/L, A/R, A/P)	1485.00	195.00	175.00	7.65
General Ledger	495.00	89.00	65.00	3.90
Accounts Receivable	495.00	89.00	65.00	3.90
Accounts Payable	495.00	89.00	65.00	3.90
Budget and Financial Reporting	495.00	99.00	99.00	3.90
Inventory Control	495.00	99.00	99.00	3.90
Sales Invoicing	495.00	99.00	99.00	3.90
Payroll	495.00	99.00	99.00	3.90
Professional Time & Billing	495.00	99.00	99.00	3.90
Hard Disk Mapper (per program)		25.00	25.00	3.90
Backup Program Diskettes		25.00	25.00	3.90
Payroll Tax Table Update 1987		25.00	25.00	3.90
System Utilities Product Training	35.00	19.00	19.00	3.90
System Utilities Data Diskette		10.00	10.00	3.90
System Utilities Program 1.2		10.00	10.00	3.90
Three EZ Pieces	245.00	99.00	75.00	3.90
Three EZ Pieces Templates	89.00	49.00	49.00	3.90
Versaform	295.00	99.00	75.00	3.90
VisiCalc	195.00	75.00	50.00	3.90
VisiCalc Product Training	35.00	19.00	19.00	3.90
Word Juggler/Lexicheck	195.00	99.00	75.00	3.90
Legal Dictionary	149.00	55.00	49.00	3.90

MEDIC ///

EXCHANGE PARTS/SERVICE FOR ///	PRICE	EXCHG REFUND
256K Upgrade (from 128K)	300.00	100.00
Built-in Disk Drive	150.00	50.00
Clock Chip Kit	30.00	
Disk Drive Cleaned, Aligned and Adjusted	30.00	
Keyboard	150.00	50.00
Keyboard Upgrade (to ///+)	150.00	50.00
Keyboard Replacement Lap		
Motherboard (specify model)	300.00	100.00
Memory Board (specify model)	200.00	100.00
Power Supply (specify model)	150.00	50.00
ProFile Factory Format	70.00	
ProFile Card only (///)	49.00	10.00
Serial Card only	49.00	10.00
UPIC Card only	49.00	10.00
Video Interlace Kit	50.00	
Sun Care - Apple /// (extended warranty)	249.00	
Sun Care - ProFile (extended warranty)	216.00	

Lisa Professional - Price List

ITEM	SUGG LIST	OUR PRICE	WITH COMP	SHIP CHGS
LISA PROFESSIONAL *- RECONDITIONED				
512K/400K Single Internal Drive	799.00		85.00	
1Mb/5 Mb ProFile Hard Disk	995.00		100.49	
1Mb/10Mb Internal Hard Disk	1495.00		103.00	
Sun XL HFS Hard Disk Startup	30.00		3.90	
Memory Upgrade (additional 512K)	300.00	200.00		3.90

LISA PROFESSIONAL - NEW				
1Mb/20Mb Internal Hard Disk with HFS	1995.00		80.00	
Sun 20 Mb Internal HD Drive with HFS	1195.00		13.48	
Sun XL HFS Hard Disk Startup	30.00		3.90	
Memory Upgrade (additional 512K)	300.00	200.00		3.90

PRINTERS * FOR LISA PROFESSIONAL				
Apple Letter Quality Printer	2195.00	495.00	395.00	24.19
ImageWriter (Apple) with system only	595.00	345.00	345.00	17.13
ImageWriter 15" with system only	695.00	445.00	445.00	22.56
LaserPrinter 300 dpi (PostScript) new	4495.00	3995.00	3995.00	80.00
LaserPrinter Plus new	4995.00	4495.00	4495.00	95.00

PRINTER ACCESSORIES FOR LISA PROFESSIONAL				
Apple LQP Manual		10.00	10.00	2.00
Cut Sheet Feeder (Apple LQP)		199.00	199.00	15.70
ImageWriter Accessory Kit	50.00	35.00	35.00	3.90
Mac Serial Cable		24.00	19.00	3.90
Modem Eliminator Cable		10.00	10.00	3.90
Parallel Interface Card - Lisa		149.00	149.00	5.00
Plotter Pens (set of 4 - 7mm, paper)		5.00	5.00	2.00
Ribbon - Apple LQP		7.50	7.50	1.00
Ribbon - ImageWriter or DMP	7.50	7.50	1.00	
Tractor Feed (Apple LQP)	150.00	95.00	75.00	4.83

ACCESSORIES/SOFTWARE FOR LISA PROFESSIONAL				
AST Memory Expansion Kit (1 1/2 Mb)		699.00	649.00	3.90
BPI Accounting Series (per module)	495.00	189.00	159.00	3.90
Lisa Office System Software 7/7		295.00	295.00	19.80
Lisa Users Guide		19.95	19.95	3.90
Macintosh 400K ext. drive (recond.) (will not work on Lisa or MacXL as second drive)	395.00	79.00	79.00	5.48
MacWorks XL (3.0) with manuals		125.00	125.00	3.90
MacWrite (2.20)/MacPaint (1.3)	250.00	99.00	99.00	3.90
ProFile 5Mb (reconditioned)	1695.00	595.00	595.00	15.49
ProFile Accessory Kit - new (Lisa)		99.00	99.00	3.90
ProFile Cable only		24.00	24.00	3.90
Screen Modification Kit (installed)		79.00	79.00	3.90
Sun 20Mb Internal HD with HFS		1195.00		13.48
Sun XL HFS Hard Disk Startup		30.00		3.90

Lisa Service/Parts

Lisa Medic	PRICE	EXCHG
EXCHANGE PARTS/SERVICE		REFUND
Built-in Disk Drive (400K)	249.00	100.00
CPU Card (specify model)	245.00	100.00
Hard Disk Assembly (Widget)	500.00	100.00
I/O Board (specify model)	295.00	100.00
Keyboard	225.00	100.00
Lisa Screen Modification Kit	79.00	
Memory Board (512K) Upgrade	300.00	100.00
Motherboard (specify model)	245.00	100.00
Mouse (specify model)	90.00	30.00
Parallel Interface Card	149.00	20.00
Power Supply	245.00	100.00
ProFile Cable only	24.00	
Sun Care - Lisa 2/0 (extended warranty)	264.00	
Sun Care - Lisa 2/5 (extended warranty)	456.00	
Sun Care - Lisa 2/10 (extended warranty)	360.00	
Sun Care - ProFile (extended warranty)	216.00	

Apple II+ Price List

ITEM	SUGG LIST	OUR PRICE	WITH COMP	SHIP CHGS
HARDWARE* APPLE II				
Apple II+, Disk II, Monitor III (call first for stock)	899.00	499.00		35.75
Monitor III (Apple)	249.00	85.00	50.00	12.14
Monitor III (Seconds, slight imperfections)		39.00	39.00	12.14

DRIVES *				
Disk II with Interface Card (call first for stock)		150.00	100.00	5.48
Macintosh 400K external drive w/UDC	485.00	169.00	159.00	5.48
ProFile 5 Mb Hard Disk w/ acc. kit.	1695.00	595.00	595.00	15.49
ProFile Accessory Kit II - new		99.00	99.00	3.90
ProFile Cable only		24.00	24.00	3.90
Quark 10 Mb Hard Disk (II, III or Mac) new	995.00	795.00	795.00	15.49
Quark 20 Mb Hard Disk (II, III or Mac) new	1195.00	895.00	895.00	15.49

ACCESSORIES				
80 Column Card		149.00	149.00	3.90
Carry Case for the //c	89.00	19.95	19.95	5.24
Disk Interface Card		50.00	50.00	3.90
Language Card (16K)		59.00	59.00	3.90

PRINTERS* FOR II				
Apple Letter Quality Printer	2195.00	495.00	395.00	24.19
ImageWriter (Apple) with system only		345.00	345.00	17.13
ImageWriter 15" with system only	595.00	445.00	445.00	22.56

PRINTER ACCESSORIES FOR II				
ImageWriter Acc. Kit (cable & manual)	50.00	35.00	35.00	3.90
LQP Tractor Feed	150.00	95.00	75.00	4.83
LQP Cut Sheet Feeter		199.00	199.00	15.70
LQP Manual		10.00	10.00	2.00
Modem Eliminator Cable	29.95	10.00	10.00	1.24
Parallel Interface Card II	195.00	75.00	59.00	3.90
Plotter Pens (set of 4 - 7mm paper)		5.00	5.00	1.00
Printwheels (Apple LQP)		4.90	4.90	1.00
Ribbon (Apple LQP)		7.50	7.50	1.00
Ribbon (ImageWriter or DMP)		7.50	7.50	1.00
Serial Printer Cable	34.95	24.00	19.95	1.24
SilenType Paper (per roll)	5.95	3.95	2.95	1.00
SilenType Interface II		15.00	15.00	3.90

SOFTWARE FOR APPLE II and II+				
BPI Accounting Software				
Accounts Receivable II+	495.00	159.00	159.00	3.90
Accounts Receivable IIe (DOS 80 col.)	495.00	159.00	159.00	3.90
Accounts Payable II+	495.00	159.00	159.00	3.90
Accounts Payable IIe (DOS 80 col.)	495.00	159.00	159.00	3.90
General Ledger II+	495.00	159.00	159.00	3.90
General Accounting IIe (DOS 80 col.)	495.00	159.00	159.00	3.90
Compac II		35.00	29.00	3.90
Full Duplex		49.00	49.00	3.90
Information Network		175.00	150.00	3.90
Logo II		50.00	50.00	3.90
Senior Analyst II		40.00	40.00	3.90

ORDERLINE
1-800-821-3221

For Orders Only

CUSTOMER SERVICE
801-752-7631

Questions—Service



P.O. BOX 4059 Logan, UT 84321

- Check Visa Master Charge American Express
 C.O.D (cashier's check only) Bank Transfer (phone first)



NAME _____

COMPANY _____

ADDRESS _____

CITY _____ ST. _____ ZIP _____

PHONE _____ DATE _____

ACCT. NO. _____ EXP. DATE _____

SIGNATURE _____

QUANTITY	DESCRIPTION	EACH	TOTAL	SHIPPING
1				
2				
3				
4				
5				
6				
7				
8				
INDIVIDUAL TOTALS				
GRAND TOTAL				

Utah Residents Add State Sales Tax

Quantity Discounts Available

Apple and the Apple logo are registered trademarks of Apple Computer, Inc.

ORDERING GUIDELINES

- PHONE ORDERS:** We maintain a toll-free line for the convenience of customers placing orders only. Please call **1-800-821-3221**.
- QUESTIONS OR SERVICE:** For questions, order inquiries or service please call our Customer Service Line at **1-801-752-7631**. For Return Authorizations please call **801-752-7631**
- TERMS:** Prepaid, C.O.D., Credit Card. Purchase Orders accepted only from previously approved and rated companies, municipalities and schools, F.O.B. Logan, Utah.
- C.O.D.:** Acceptable by telephone or mail. Payment from customer must be by cash money order, cashiers check or company check. We cannot accept personal checks as payment on C.O.D. parcels.
- CREDIT CARDS:** MasterCard, VISA and American Express are accepted by mail or telephone. Complete order form with card number, name, signature and expiration date. If phoning order please have information accessible.
- DELIVERY:** Orders are normally shipped within 48 hours after receipt of customer's order. Same day shipment requests are subject to an additional service charge. Please allow 7 to 10 working days after your order is placed for normal delivery.
- SHIPPING:** Our normal shipping method is via UPS. Priority Service Shipments (air freight, overnight delivery, Blue Label, etc) are available, upon request, to most areas. Priority Service requests are subject to additional charges. Please contact us for further information.
- HOURS:** Our phone lines are manned 7:30 am to 5:30 pm MST Monday through Friday.
- PRICES:** Prices are subject to change without prior notice.
- AVAILABILITY:** All items are subject to availability and previous sale.
- MINIMUM ORDER:** For service parts we maintain a minimum order limit of \$15.00. For software orders that limit is \$10.00. Any amount under that will automatically be charged the minimum amount plus shipping charges.
- SALES TAX:** Sales tax must be charged to all orders delivered in Utah.
- RETURNED CHECKS:** All checks returned for any reason will be subject to a \$10.00 fee.
- RETURNED MATERIAL:** All returned merchandise must be accompanied by an authorization number. Our Return Merchandise Authorization Department can be reached by calling 801-752-7631. When calling please have a copy of your invoice/packing list available for necessary information. A Return Form accompanies each order. The customer is responsible for the cost of shipping the product to Sun will only pay the return of exchanged or warranted items. We will not accept C.O.D. returns.
- DEFECTIVE MATERIAL-** Claims must be made within 30 days of receipt.
- INCORRECT MATERIAL-** Claims must be made within 10 days of receipt.

special apple /// conference

Apple /// Conference is Scheduled for Later This Year

The Phase /// Conference and Exposition is the first major gathering designed explicitly for the business and professional user of Apple Computers. The seminars have been planned to provide the business/profession user (and developer) with tools and skills to increase productivity and profitability.

Full registration includes 3 days of seminars and workshops, a keynote reception the first evening, a gala banquet the second evening which will feature a major speaker and honor several pacesetters and the pioneers of hardware and software for the Apple family. The first 200 persons registering will also receive invitations to the /// Forever Luncheon which

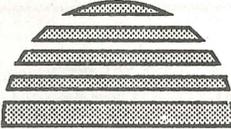
will honor the people that have made major contributions to the continuing value of the Apple ///.

The conference will address issues relevant to business use of all models of Apple computers. Seminars and workshops will be presented on three simultaneous tracks and will include topics ranging from introductory product tutorials, head to head comparisons of competing products, and accounting issues, to advanced classes on specific products. A consistent goal of the conference will be to augment attendees' return on their Apple system investment.

In addition, all attendees will receive full admission to the Phase /// Exhibition. Representatives of a variety of hardware, software, and service providers will be present to suggest solutions to your business problems. Many vendors will be offering special Phase /// discounts.

Conference Dates:
Friday Oct. 2 - Sun. Oct. 4,
1987
Hyatt Regency Woodfield
Schaumburg, Illinois

For More Information:
TAU
c/o Randall Jackson
1511 N. Bell
Chicago, IL 60622



Sun
Remarketing

P.O. Box 4059 Logan, UT 84321

BULK RATE
US POSTAGE
PAID
SLC UTAH
PERMIT #1030

Address Correction Requested